SEQUENCE LISTING

<110> Bristol-Myers Squibb Company

<120> A NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR, HGPRBMY11, EXPRESSED HIGHLY IN HEART AND VARIANTS THEREOF <130> D0075.NP <150> 60/249,613 2000-11-17 <151> 60/257,611 <150> <151> 2000-12-21 <150> 60/305,818 <151> 2001-07-16 **__**|<160> 81 ì. **170**> PatentIn version 3.0 4] <210> <211> <212> 1708 DNA -213> homo sapiens < 220 > **≈**<221> CDS å...×222> (515)..(1504) TK400> 1 ricccacgcgtc cggggagctt gcactaacat ctacaatggc ttctaaaaag cacagatgac 60 tgctacact tcctgacttg cttgctattg gttggcactg ttcataaata taatttgctc 120 tttcactttt ctttgaaatg agcaacctga attactcgga ggagaaaggc aggagagata 180 gaggcagcag aagccagggc agctgaaaga cagagacctt cagtctgaac caacaacaag 240 caaagttaaa ttatggatat ccaagggagt ctatagaagg tccatgcaag acattttgac 300 tacttgtctg aactagatat cccttgaatg tgcacacaaa aagtgaatgg gtcatttgat 360 aagggaaaac taggttccaa gatggctgaa taggaagagc tccagtctgc agatcccagt 420 gtgagcaacg tggaagatgg gtgatttctg catttccaac tgagcatgga gagaaaaatt 480 tatgtccttg caaccatcca tctccgtatc agaa atg gaa cca aat ggc acc ttc 535 Met Glu Pro Asn Gly Thr Phe age aat aac aac age agg aac tge aca att gaa aac tte aag aga gaa 583 Ser Asn Asn Asn Ser Arg Asn Cys Thr Ile Glu Asn Phe Lys Arg Glu 10

631

ttt ttc cca att gta tat ctg ata ata ttt ttc tgg gga gtc ttg gga

Phe	Phe 25	Pro	Ile	Val	Tyr	Leu 30	Ile	Ile	Phe	Phe	Trp	Gly	Val	Leu	Gly	
aat Asn 40	ggg	ttg Leu	tcc Ser	ata Ile	tat Tyr 45	gtt Val	ttc Phe	ctg Leu	cag Gln	cct Pro 50	tat Tyr	aag Lys	aag Lys	tcc Ser	aca Thr 55	679
tct Ser	gtg Val	aac Asn	gtt Val	ttc Phe 60	atg Met	cta Leu	aat Asn	ctg Leu	gcc Ala 65	att Ile	tca Ser	gat Asp	ctc Leu	ctg Leu 70	ttc Phe	727
ata Ile	agc Ser	acg Thr	ctt Leu 75	ccc Pro	ttc Phe	agg Arg	gct Ala	gac Asp 80	tat Tyr	tat Tyr	ctt Leu	aga Arg	ggc Gly 85	tcc Ser	aat Asn	775
Trp	ata Ile	Phe 90	Gly	Asp	Leu	Ala	Cys 95	Arg	Ile	Met	Ser	Tyr 100	Ser	Leu	Tyr	823
gtc Val	aac Asn 105	atg Met	tac Tyr	agc Ser	agt Ser	att Ile 110	tat Tyr	ttc Phe	ctg Leu	acc Thr	gtg Val 115	ctg Leu	agt Ser	gtt Val	gtg Val	871
Legt LArg	ttc Phe	ctg Leu	gca Ala	atg Met	gtt Val 125	cac His	ccc Pro	ttt Phe	cgg Arg	ctt Leu 130	ctg Leu	cat His	gtc Val	acc Thr	agc Ser 135	919
atc Ile	agg Arg	agt Ser	gcc Ala	tgg Trp 140	atc Ile	ctc Leu	tgt Cys	gjà aaa	atc Ile 145	ata Ile	tgg Trp	atc Ile	ctt Leu	atc Ile 150	atg Met	967
Ngct Lala	tcc Ser	tca Ser	ata Ile 155	atg Met	ctc Leu	ctg Leu	gac Asp	agt Ser 160	ggc Gly	tct Ser	gag Glu	cag Gln	aac Asn 165	ggc Gly	agt Ser	1015
gtc Val	aca Thr	tca Ser 170	tgc Cys	tta Leu	gag Glu	ctg Leu	aat Asn 175	ctc Leu	tat Tyr	aaa Lys	att Ile	gct Ala 180	aag Lys	ctg Leu	cag Gln	1063
acc Thr	atg Met 185	aac Asn	tat Tyr	att Ile	gcc Ala	ttg Leu 190	gtg Val	gtg Val	ggc Gly	tgc Cys	ctg Leu 195	ctg Leu	cca Pro	ttt Phe	ttc Phe	1111
aca Thr 200	ctc Leu	agc Ser	atc Ile	tgt Cys	tat Tyr 205	ctg Leu	ctg Leu	atc Ile	att Ile	cgg Arg 210	gtt Val	ctg Leu	tta Leu	aaa Lys	gtg Val 215	1159
gag Glu	gtc Val	cca Pro	gaa Glu	tcg Ser 220	gly ggg	ctg Leu	cgg Arg	gtt Val	tct Ser 225	cac His	agg Arg	aag Lys	gca Ala	ctg Leu 230	acc Thr	1207
acc Thr	atc Ile	Ile	atc Ile 235	acc Thr	ttg Leu	atc Ile	Ile	ttc Phe 240	ttc Phe	ttg Leu	tgt Cys	ttc Phe	ctg Leu 245	ccc Pro	tat Tyr	1255
cac His	aca Thr	ctg Leu	agg Arg	acc Thr	gtc Val	cac His	ttg Leu	acg Thr	aca Thr	tgg Trp	aaa Lys	gtg Val	ggt. Gly	tta Leu	tgc Cys	1303

aaa Lys	gac															
	Asp 265	aga Arg	ctg Leu	cat His	aaa Lys	gct Ala 270	Leu	gtt Val	atc Ile	aca Thr	ctg Leu 275	Ala	ttg Leu	gca Ala	gca Ala	1351
gcc Ala 280	Asn	gcc Ala	tgc Cys	ttc Phe	aat Asn 285	cct Pro	ctg Leu	ctc Leu	tat Tyr	tac Tyr 290	ttt Phe	gct Ala	ggg Gly	gag Glu	aat Asn 295	1399
ttt Phe	aag Lys	gac Asp	aga Arg	cta Leu 300	Lys	tct Ser	gca Ala	ctc Leu	aga Arg 305	Lys	ggc	cat His	cca Pro	cag Gln 310	aag Lys	1447
gca Ala	aag Lys	aca Thr	aag Lys 315	tgt Cys	gtt Val	ttc Phe	cct Pro	gtt Val 320	agt Ser	gtg Val	tgg Trp	ttg Leu	aga Arg 325	aag Lys	gaa Glu	1495
aca Thr	aga Arg	gta Val 330	taag	ggag	ctc :	ttaga	atga	ga c	ctgt	tatt	g ta	tcct	tgtg		•	1544
il) Litec	atctt	ca t	tcad	ctca	ta qi	ctc	caaa	t gad	cttt	gtat	tta	catic	act	ccca	acaaat	1604
M															aaattt	
171													act	LCaa	addltt	1664
i i i	cagt	.gc a	laaaa	aaaa	aa aa	aaaaa	aaaa	a aaa	aaaa	aaaa	aaaa	a				1708
	0> 2	!														
-<21																
プレ つ11	_	30 TOTT														
[k212 [k213	2> F	PRT	sapi	ens												
	2> F 3> h	RT	sapi	lens												
<213 <400	2> F 3> h	PRT	_		Thr	Phe	Ser	λen	λen	Λαn	Sor	n.v.a.	n an	Char	mb	
<213 <400	2> F 3> h	PRT	_		Thr	Phe	Ser	Asn	Asn 10	Asn	Ser	Arg	Asn	Cys 15	Thr	
*** < 213 ****** < 400 Met 1	2> F 3> h	PRT IOMO Pro	Asn	Gly 5					10					15		
Met 1	2> F 3> h 3> c Glu Glu	PRT IOMO Pro Asn	Asn Phe 20	Gly 5 Lys	Arg	Glu Gly	Phe	Phe 25	10 Pro	Ile	Val	Tyr	Leu 30	15	Ile	,
Met Ile	2> F 3> h 3> c Glu Glu	Pro Asn Trp	Asn Phe 20	Gly 5 Lys Val	Arg Leu	Glu Gly	Phe Asn 40	Phe 25 Gly	10 Pro Leu	Ile Ser	Val Ile	Tyr Tyr 45	Leu 30 Val	15 Ile	Ile · Leu	•
Met Ile Phe Gln	2> F 3> h 3> h Glu Glu Phe	Pro Asn Trp 35	Asn Phe 20 Gly Lys	Gly 5 Lys Val	Arg Leu Ser	Glu Gly Thr 55	Phe Asn 40 Ser	Phe 25 Gly Val	10 Pro Leu Asn	Ile Ser Val	Val Ile Phe 60	Tyr Tyr 45 Met	Leu 30 Val	Ile Phe Asn	Ile Leu Leu	

85 90 95

Ile Met Ser Tyr Ser Leu Tyr Val Asn Met Tyr Ser Ser Ile Tyr Phe 105 Leu Thr Val Leu Ser Val Val Arg Phe Leu Ala Met Val His Pro Phe 120 Arg Leu Leu His Val Thr Ser Ile Arg Ser Ala Trp Ile Leu Cys Gly 135 Ile Ile Trp Ile Leu Ile Met Ala Ser Ser Ile Met Leu Leu Asp Ser 150 Gly Ser Glu Gln Asn Gly Ser Val Thr Ser Cys Leu Glu Leu Asn Leu 170 12) Tyr Lys Ile Ala Lys Leu Gln Thr Met Asn Tyr Ile Ala Leu Val Val 180 185 FaGly Cys Leu Leu Pro Phe Phe Thr Leu Ser Ile Cys Tyr Leu Leu Ile 200 E 101 \$ Tile Arg Val Leu Leu Lys Val Glu Val Pro Glu Ser Gly Leu Arg Val 210 215 Šania Semis Ser His Arg Lys Ala Leu Thr Thr Ile Ile Ile Thr Leu Ile Ile Phe 230 235 Phe Leu Cys Phe Leu Pro Tyr His Thr Leu Arg Thr Val His Leu Thr Thr Trp Lys Val Gly Leu Cys Lys Asp Arg Leu His Lys Ala Leu Val 260 265 Ile Thr Leu Ala Leu Ala Ala Ala Asn Ala Cys Phe Asn Pro Leu Leu 280

Tyr Tyr Phe Ala Gly Glu Asn Phe Lys Asp Arg Leu Lys Ser Ala Leu

Arg Lys Gly His Pro Gln Lys Ala Lys Thr Lys Cys Val Phe Pro Val

295

310

290

305

315

Ser Val Trp Leu Arg Lys Glu Thr Arg Val 325 330

<210> 3

<211> 362

<212> PRT

<213> homo sapiens

<400> 3

Met Thr Glu Ala Leu Ile Ser Ala Ala Leu Asn Gly Thr Gln Pro Glu

1 10 15

Leu Leu Ala Gly Gly Trp Ala Ala Gly Asn Ala Thr Thr Lys Cys Ser 20 25 30

Leu Thr Lys Thr Gly Phe Gln Phe Tyr Tyr Leu Pro Thr Val Tyr Ile
35 40 45

Leu Val Phe Ile Thr Gly Phe Leu Gly Asn Ser Val Ala Ile Trp Met
50
55
60

Phe Val Phe His Met Arg Pro Trp Ser Gly Ile Ser Val Tyr Met Phe 75 80

Asn Leu Ala Leu Ala Asp Phe Leu Tyr Val Leu Thr Leu Pro Ala Leu 85 90 95

The Phe Tyr Tyr Phe Asn Lys Thr Asp Trp Ile Phe Gly Asp Val Met

rdys Lys Leu Gln Arg Phe Ile Phe His Val Asn Leu Tyr Gly Ser Ile 115 120 125

Leu Phe Leu Thr Cys Ile Ser Val His Arg Tyr Thr Gly Val Val His 130 135 140

Pro Leu Lys Ser Leu Gly Arg Leu Lys Lys Lys Asn Ala Val Tyr Val 145 150 155 160

Ser Ser Leu Val Trp Ala Leu Val Val Ala Val Ile Ala Pro Ile Leu 165 170 175

Phe Tyr Ser Gly Thr Gly Val Arg Arg Asn Lys Thr Ile Thr Cys Tyr 180 185 190

Asp Thr Thr Ala Asp Glu Tyr Leu Arg Ser Tyr Phe Val Tyr Ser Met 195 200 205

Cys Thr Thr Val Phe Met Phe Cys Ile Pro Phe Ile Val Ile Leu Gly 210 215 220

Cys Tyr Gly Leu Ile Val Lys Ala Leu Ile Tyr Lys Asp Leu Asp Asn 225 230 235 240

- Ser Pro Leu Arg Arg Lys Ser Ile Tyr Leu Val Ile Ile Val Leu Thr 245 250 255
- Val Phe Ala Val Ser Tyr Leu Pro Phe His Val Met Lys Thr Leu Asn 260 265 270
- Leu Arg Ala Arg Leu Asp Phe Gln Thr Pro Gln Met Cys Ala Phe Asn 275 280 285
- Asp Lys Val Tyr Ala Thr Tyr Gln Val Thr Arg Gly Leu Ala Ser Leu 290 295 300
- Asn Ser Cys Val Asp Pro Ile Leu Tyr Phe Leu Ala Gly Asp Thr Phe 305 310 315 320
- Arg Arg Arg Leu Ser Arg Ala Thr Arg Lys Ser Ser Arg Arg Ser Glu
 325 330 335
- Pro Asn Val Gln Ser Lys Ser Glu Glu Met Thr Leu Asn Ile Leu Thr
- Glu Tyr Lys Gln Asn Gly Asp Thr Ser Leu 355 360
- []<210> 4
- **|**||<211> 362
- 3 <212> PRT
- | 213> homo sapiens
- <400> 4
- Met Thr Glu Ala Leu Ile Ser Ala Ala Leu Asn Gly Thr Gln Pro Glu
- Leu Leu Ala Gly Gly Trp Ala Ala Gly Asn Ala Ser Thr Lys Cys Ser
- Leu Thr Lys Thr Gly Phe Gln Phe Tyr Tyr Leu Pro Thr Val Tyr Ile 35 40 45
- Leu Val Phe Ile Thr Gly Phe Leu Gly Asn Ser Val Ala Ile Trp Met 50 55 60
- Phe Val Phe His Met Arg Pro Trp Ser Gly Ile Ser Val Tyr Met Phe 65 70 75 80
- Asn Leu Ala Leu Ala Asp Phe Leu Tyr Val Leu Thr Leu Pro Ala Leu 85 90 95
- Ile Phe Tyr Tyr Phe Asn Lys Thr Asp Trp Ile Phe Gly Asp Val Met
 100 105 110
- Cys Lys Leu Gln Arg Phe Ile Phe His Val Asn Leu Tyr Gly Ser Ile 115 120 125
- Leu Phe Leu Thr Cys Ile Ser Val His Arg Tyr Thr Gly Val Val His

130 135 140

Pro Leu Lys Ser Leu Gly Arg Leu Lys Lys Lys Asn Ala Val Tyr Val 145 150 155 160

Ser Ser Leu Val Trp Ala Leu Val Val Ala Val Ile Ala Pro Ile Leu 165 170 175

Phe Tyr Ser Gly Thr Gly Val Arg Arg Asn Lys Thr Ile Thr Cys Tyr 180 185 190

Asp Thr Thr Ala Asp Glu Tyr Leu Arg Ser Tyr Phe Val Tyr Ser Met 195 200 205

Cys Thr Thr Val Phe Met Phe Cys Ile Pro Phe Ile Val Ile Leu Gly 210 215 220

Cys Tyr Gly Leu Ile Val Lys Ala Leu Ile Tyr Lys Asp Leu Asp Asn 225 230 235 240

Fer Pro Leu Arg Arg Lys Ser Ile Tyr Leu Val Ile Ile Val Leu Thr
245 250 255

Val Phe Ala Val Ser Tyr Leu Pro Phe His Val Met Lys Thr Leu Asn 260 265 270

Theu Arg Ala Arg Leu Asp Phe Gln Thr Pro Gln Met Cys Ala Phe Asn 275 280 285

Asp Lys Val Tyr Ala Thr Tyr Gln Val Thr Arg Gly Leu Ala Ser Leu 295 300

Asn Ser Cys Val Asp Pro Ile Leu Tyr Phe Leu Ala Gly Asp Thr Phe

Arg Arg Arg Leu Ser Arg Ala Thr Arg Lys Ser Ser Arg Arg Ser Glu
325 330 335

Pro Asn Val Gln Ser Lys Ser Glu Glu Met Thr Leu Asn Ile Leu Thr 340 345 350

Glu Tyr Lys Gln Asn Gly Asp Thr Ser Leu 355 360

<210> 5

<211> 373

<212> PRT

<213> homo sapiens

<400> 5

Met Thr Glu Val Pro Trp Ser Ala Val Pro Asn Gly Thr Asp Ala Ala 1 5 10 15

Phe Leu Ala Gly Leu Gly Ser Leu Trp Gly Asn Ser Thr Ile Ala Ser 20 25 30

- Thr Ala Ala Val Ser Ser Ser Phe Arg Cys Ala Leu Ile Lys Thr Gly 35 40 45
- Phe Gln Phe Tyr Tyr Leu Pro Ala Val Tyr Ile Leu Val Phe Ile Ile 50 55 60
- Gly Phe Leu Gly Asn Ser Val Ala Ile Trp Met Phe Val Phe His Met 65 70 75 80
- Lys Pro Trp Ser Gly Ile Ser Val Tyr Met Phe Asn Leu Ala Leu Ala 85 90 95
- Asp Phe Leu Tyr Val Leu Thr Leu Pro Ala Leu Ile Phe Tyr Tyr Phe
 100 105 110
- Asn Lys Thr Asp Trp Ile Phe Gly Asp Val Met Cys Lys Leu Gln Arg 115 120 125
- Phe Ile Phe His Val Asn Leu Tyr Gly Ser Ile Leu Phe Leu Thr Cys
 130 135 140
- Ile Ser Ala His Arg Tyr Ser Gly Val Val Tyr Pro Leu Lys Ser Leu
 145 150 155 160
- Gly Arg Leu Lys Lys Lys Asn Ala Ile Tyr Val Ser Val Leu Val Trp
 165 170 175
- Leu Ile Val Val Val Ala Ile Ser Pro Ile Leu Phe Tyr Ser Gly Thr
 180 185 190
- Gly Ile Arg Lys Asn Lys Thr Val Thr Cys Tyr Asp Ser Thr Ser Asp 195 200 205
- Tyr Leu Arg Ser Tyr Phe Ile Tyr Ser Met Cys Thr Thr Val Ala
- Met Phe Cys Ile Pro Leu Val Leu Ile Leu Gly Cys Tyr Gly Leu Ile 225 230 235 240
- Val Arg Ala Leu Ile Tyr Lys Asp Leu Asp Asn Ser Pro Leu Arg Arg 245 250 255
- Lys Ser Ile Tyr Leu Val Ile Ile Val Leu Thr Val Phe Ala Val Ser 260 265 270
- Tyr Ile Pro Phe His Val Met Lys Thr Met Asn Leu Arg Ala Arg Leu 275 280 285
- Asp Phe Gln Thr Pro Glu Met Cys Asp Phe Asn Asp Arg Val Tyr Ala 290 295 300
- Thr Tyr Gln Val Thr Arg Gly Leu Ala Ser Leu Asn Ser Cys Val Asp 305 310 315 320
- Pro Ile Leu Tyr Phe Leu Ala Gly Asp Thr Phe Arg Arg Leu Ser 325 330 335

Arg Ala Thr Arg Lys Ala Ser Arg Arg Ser Glu Ala Asn Leu Gln Ser 340 345 350

Lys Ser Glu Glu Met Thr Leu Asn Ile Leu Ser Glu Phe Lys Gln Asn 355 360 365

Gly Asp Thr Ser Leu 370

<210> 6

<211> 337

<212> PRT

<213> homo sapiens

<400> 6

Met Asp Glu Thr Gly Asn Leu Thr Val Ser Ser Ala Thr Cys His Asp 1 5 10 15

Thr Ile Asp Asp Phe Arg Asn Gln Val Tyr Ser Thr Leu Tyr Ser Met
20 25 30

The Ser Val Val Gly Phe Phe Gly Asn Gly Phe Val Leu Tyr Val Leu 35 40 45

He Lys Thr Tyr His Lys Lys Ser Ala Phe Gln Val Tyr Met Ile Asn
50
60

Leu Ala Val Ala Asp Leu Leu Cys Val Cys Thr Leu Pro Leu Arg Val 65 70 75 80

Wal Tyr Tyr Val His Lys Gly Ile Trp Leu Phe Gly Asp Phe Leu Cys
85 90 95

Arg Leu Ser Thr Tyr Ala Leu Tyr Val Asn Leu Tyr Cys Ser Ile Phe 100 105 110

Phe Met Thr Ala Met Ser Phe Phe Arg Cys Ile Ala Ile Val Phe Pro 115 120 125

Val Gln Asn Ile Asn Leu Val Thr Gln Lys Lys Ala Arg Phe Val Cys 130 135 140

Val Gly Ile Trp Ile Phe Val Ile Leu Thr Ser Ser Pro Phe Leu Met 145 150 155 160

Ala Lys Pro Gln Lys Asp Glu Lys Asn Asn Thr Lys Cys Phe Glu Pro 165 170 175

Pro Gln Asp Asn Gln Thr Lys Asn His Val Leu Val Leu His Tyr Val
180 185 190

Ser Leu Phe Val Gly Phe Ile Ile Pro Phe Val Ile Ile Val Cys 195 200 205

Tyr Thr Met Ile Ile Leu Thr Leu Leu Lys Lys Ser Met Lys Lys Asn 210 215 220

```
Leu Ser Ser His Lys Lys Ala Ile Gly Met Ile Met Val Val Thr Ala
  Ala Phe Leu Val Ser Phe Met Pro Tyr His Ile Gln Arg Thr Ile His
  Leu His Phe Leu His Asn Glu Thr Lys Pro Cys Asp Ser Val Leu Arg
  Met Gln Lys Ser Val Val Ile Thr Leu Ser Leu Ala Ala Ser Asn Cys
  Cys Phe Asp Pro Leu Leu Tyr Phe Phe Ser Gly Gly Asn Phe Arg Lys
                          295
  Arg Leu Ser Thr Phe Arg Lys His Ser Leu Ser Ser Val Thr Tyr Val
  305
                      310
🎙 Pro Arg Lys Lys Ala Ser Leu Pro Glu Lys Gly Glu Glu Ile Cys Lys
                 325
                                      330
ŧD.
⊾ Val
IJ
<210>
        7
  <211> 308
= <212> PRT
<213> homo sapiens
<400> 7
Met Val Ser Ser Asn Cys Ser Thr Glu Asp Ser Phe Lys Tyr Thr Leu
  Tyr Gly Cys Val Phe Ser Met Val Phe Val Leu Gly Leu Ile Ala Asn
  Cys Val Ala Ile Tyr Ile Phe Thr Phe Thr Leu Lys Val Arg Asn Glu
  Thr Thr Tyr Met Leu Asn Leu Ala Ile Ser Asp Leu Leu Phe Val
  Phe Thr Leu Pro Phe Arg Ile Tyr Tyr Phe Val Val Arg Asn Trp Pro
  Phe Gly Asp Val Leu Cys Lys Ile Ser Val Thr Leu Phe Tyr Thr Asn
  Met Tyr Gly Ser Ile Leu Phe Leu Thr Cys Ile Ser Val Asp Arg Phe
  Leu Ala Ile Val His Pro Phe Arg Ser Lys Thr Leu Arg Thr Lys Arg
  Asn Ala Arq Ile Val Cys Val Ala Val Trp Ile Thr Val Leu Ala Gly
```

140 135 130

Ser Thr Pro Ala Ser Phe Phe Gln Ser Thr Asn Arg Gln Asn Asn Thr 155 150 Glu Gln Arg Thr Cys Phe Glu Asn Phe Pro Glu Ser Thr Trp Lys Thr 170 Tyr Leu Ser Arg Ile Val Ile Phe Ile Glu Ile Val Gly Phe Phe Ile 185 Pro Leu Ile Leu Asn Val Thr Cys Ser Thr Met Val Leu Arg Thr Leu 200 Asn Lys Pro Leu Thr Leu Ser Arg Asn Lys Leu Ser Lys Lys Val Leu Lys Met Ile Phe Val His Leu Val Ile Phe Cys Phe Cys Phe Val 225 230 Pro Tyr Asn Ile Thr Leu Ile Leu Tyr Ser Leu Met Arg Thr Gln Thr 🏥 Trp Ile Asn Cys Ser Val Val Thr Ala Val Arg Thr Met Tyr Pro Val 265 # Thr Leu Cys Ile Ala Val Ser Asn Cys Cys Phe Asp Pro Ile Val Tyr 280 Tyr Phe Thr Ser Asp Thr Asn Ser Glu Leu Asp Lys Lys Gln Gln Val 300 295 His Gln Asn Thr 305 <210> 8 <211> 339 <212> PRT <213> homo sapiens <400> 8 Met Asn Gly Leu Glu Val Ala Pro Pro Gly Leu Ile Thr Asn Phe Ser Leu Ala Thr Ala Glu Gln Cys Gly Gln Glu Thr Pro Leu Glu Asn Met

Leu Phe Ala Ser Phe Tyr Leu Leu Asp Phe Ile Leu Ala Leu Val Gly

Asn Thr Leu Ala Leu Trp Leu Phe Ile Arg Asp His Lys Ser Gly Thr

Pro Ala Asn Val Phe Leu Met His Leu Ala Val Ala Asp Leu Ser Cys 70

Val Leu Val Leu Pro Thr Arg Leu Val Tyr His Phe Ser Gly Asn His
85 90 95

Trp Pro Phe Gly Glu Ile Ala Cys Arg Leu Thr Gly Phe Leu Phe Tyr 100 105 110

Leu Asn Met Tyr Ala Ser Ile Tyr Phe Leu Thr Cys Ile Ser Ala Asp 115 120 125

Arg Phe Leu Ala Ile Val His Pro Val Lys Ser Leu Lys Leu Arg Arg 130 135 140

Pro Leu Tyr Ala His Leu Ala Cys Ala Phe Leu Trp Val Val Ala 145 150 155 160

Val Ala Met Ala Pro Leu Leu Val Ser Pro Gln Thr Val Gln Thr Asn 165 170 175

His Thr Val Val Cys Leu Gln Leu Tyr Arg Glu Lys Ala Ser His His 180 185 190

Ala Leu Val Ser Leu Ala Val Ala Phe Thr Phe Pro Phe Ile Thr Thr

Val Thr Cys Tyr Leu Leu Ile Ile Arg Ser Leu Arg Gln Gly Leu Arg 210 215 220

Val Glu Lys Arg Leu Lys Thr Lys Ala Val Arg Met Ile Ala Ile Val

Leu Ala Ile Phe Leu Val Cys Phe Val Pro Tyr His Val Asn Arg Ser 250 255

Val Tyr Val Leu His Tyr Arg Ser His Gly Ala Ser Cys Ala Thr Gln 260 265 270

Arg Ile Leu Ala Leu Ala Asn Arg Ile Thr Ser Cys Leu Thr Ser Leu 275 280 285

Asn Gly Ala Leu Asp Pro Ile Met Tyr Phe Phe Val Ala Glu Lys Phe 290 295 300

Arg His Ala Leu Cys Asn Leu Leu Cys Gly Lys Arg Leu Lys Gly Pro 305 310 315 320

Pro Pro Ser Phe Glu Gly Lys Thr Asn Glu Ser Ser Leu Ser Ala Lys 325 330 335

Ser Glu Leu

<210> 9

<211> 80

<212> DNA

<213> homo sapiens

<400> 9

```
ttgggaaatg ggttgtccat atatgttttc ctgcagcctt ataagaagtc cacatctgtq
                                                                                                                                                                                                                                                                                                                 60
        aacgttttca tgctaaatct
                                                                                                                                                                                                                                                                                                                 80
         <210>
                                     10
         <211>
                                     20
         <212>
                                     DNA
         <213>
                                 homo sapiens
        <400> 10
        ggccatttca gatctcctgt
                                                                                                                                                                                                                                                                                                                 20
        <210> 11
        <211>
                                     20
        <212>
                                    DNA
        <213> homo sapiens
 []<400> 11
social designation of the second section of the second sec
                                                                                                                                                                                                                                                                                                                20
 ı]
 ļu.
12
 <211>
<212>
                                     25
                                    PRT
 |||<213> homo sapiens
 <400> 12
  .
.
  hatPhe Phe Pro Ile Val Tyr Leu Ile Ile Phe Phe Trp Gly Val Leu Gly
                                                                           5
 Asn Gly Leu Ser Ile Tyr Val Phe Leu
       <210> 13
       <211>
                                    25
       <212>
                                  PRT
       <213> homo sapiens
       <400> 13
      Val Phe Met Leu Asn Leu Ala Ile Ser Asp Leu Leu Phe Ile Ser Thr
       Leu Pro Phe Arg Ala Asp Tyr Tyr Leu
                                                         20
       <210>
                                  14
       <211>
                                  22
       <212>
                                 PRT
       <213> homo sapiens
       <400> 14
```

>

Val Asn Met Tyr Ser Ser Ile Tyr Phe Leu Thr Val Leu Ser Val Val

```
1
```

5

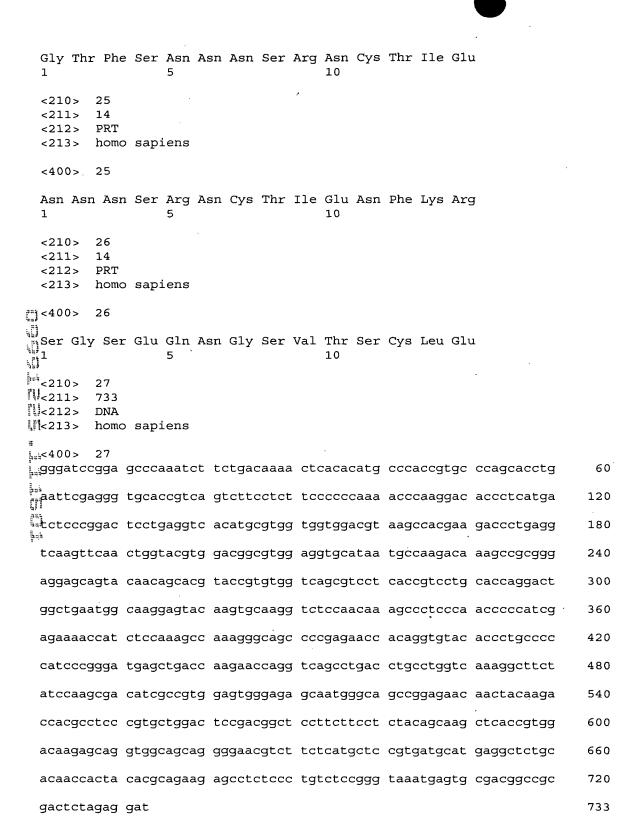
20

10

15

```
Arg Phe Leu Ala Met Val
             20
 <210> 15
       20
 <211>
 <212> PRT
 <213> homo sapiens
 <400> 15
 Ala Trp Ile Leu Cys Gly Ile Ile Trp Ile Leu Ile Met Ala Ser Ser
 Ile Met Leu Leu
             20
210> 16
211> 19
PRT homo sapiens
<400> 16
The Ala Leu Val Val Gly Cys Leu Leu Pro Phe Phe Thr Leu Ser Ile
                                     10
Cys Tyr Leu
# m #
210> 17
2211> 22
2212> PRT
homo sapiens
 <400> 17
 Ala Leu Thr Thr Ile Ile Ile Thr Leu Ile Ile Phe Phe Leu Cys Phe
                                    10
 Leu Pro Tyr His Thr Leu
            20
 <210> 18
 <211> 23
 <212> PRT
<213> homo sapiens
<400> 18
Ala Leu Val Ile Thr Leu Ala Leu Ala Ala Ala Asn Ala Cys Phe Asn
Pro Leu Leu Tyr Tyr Phe Ala
```

```
<210> 19
 <211> 13
 <212> PRT
 <213> homo sapiens
 <400> 19
 Leu Leu His Val Thr Ser Ile Arg Ser Ala Trp Ile Leu
 <210> 20
 <211> 13
 <212> PRT
 <213> homo sapiens
 <400> 20
 Ser Gly Leu Arg Val Ser His Arg Lys Ala Leu Thr Thr
1
210> 21
211> 13
2212> PRT
2212> PRI
<213> homo sapiens
N400> 21
{\mbox{\tiny $\rm I\hspace{-.07cm}$}} Phe Leu Pro Tyr His Thr Leu Arg Thr Val His Leu Thr
                5
11
gei.
<u>≨</u>≤210> 22
2211> 13
PRT
213> homo sapiens
 <400> 22
 Thr Val His Leu Thr Trp Lys Val Gly Leu Cys Lys
                  5
<210> 23
 <211> 12
 <212> PRT
 <213> homo sapiens
 <400> 23
Met Glu Pro Asn Gly Thr Phe Ser Asn Asn Asn Ser
                 5
 <210> 24
 <211> 14
 <212> PRT
<213> homo sapiens
<400> 24
```



<210> 28

	<213 <213 <213	2>	8 PRT bacte	erio	phage	e T7												
	<400	0 >	28															
	Asp 1	Tyr	Lys	Asp	Asp 5	Asp	Asp	Lys										
	<210 <211 <212 <213	1 > 2 >	29 1041 DNA Homo	sap:	iens									-				
	<220 <220 <220	1>	CDS (1).	. (10:	38)													
British Sant Anna Sant	_	gag	29 aga Arg			_		_						_		_		48
			cca Pro															96
100 mars mars no 100 mars no 1		_	aac Asn 35		_	-	_					_		_			:	144
Harting Tall after			tgg Trp		-	_										_	:	192
			tat Tyr	_	_						_					_	2	240
			tca Ser	_		_			_	_					_	-	2	288
			ctt Leu	-								_	_	_	_		(336
			tct Ser 115														;	384
	_		gtg Val	_	-	_		_		_	_	_	_				4	432
			ctg Leu														4	480



145					150					155					160	
					atc Ile	_	-				_		_	-	_	528
			_		ggc Gly	_	_			_			_			576
			_	_	ctg Leu	-		_				_	_			624
Gly	Cys 210	Leu	Leu	Pro	ttt Phe	Phe 215	Thr	Leu	Ser	Ile	Cys 220	Tyr	Leu	Leu	Ile	672
att Ile 225	cgg Arg	gtt Val	ctg Leu	tta Leu	aaa Lys 230	gtg Val	gag Glu	gtc Val	cca Pro	gaa Glu 235	tcg Ser	gly ggg	ctg Leu	cgg Arg	gtt Val 240	720
## Ser																768
Phe	_	-		-	ccc Pro				-			_		_	_	816
aca Thr	tgg Trp	aaa Lys 275	gtg Val	ggt Gly	tta Leu	tgc Cys	aaa Lys 280	gac Asp	aga Arg	ctg Leu	cat His	aaa Lys 285	gct Ala	ttg Leu	gtt Val	864
atc					gca Ala											912
					gag Glu 310											960
					cag Gln											1008
	-	_	_	-	aag Lys			_	_	taa						1041
<210 -211)> 3	30 346														

<211> 346 <212> PRT <213> Homo sapiens

<400> 30

Met Glu Arg Lys Phe Met Ser Leu Gln Pro Ser Ile Ser Val Ser Glu 1 5 10 10 15

Met Glu Pro Asn Gly Thr Phe Ser Asn Asn Asn Ser Arg Asn Cys Thr 20 25 30

Ile Glu Asn Phe Lys Arg Glu Phe Phe Pro Ile Val Tyr Leu Ile Ile 35 40 45

Phe Phe Trp Gly Val Leu Gly Asn Gly Leu Ser Ile Tyr Val Phe Leu 50 55 60

Gln Pro Tyr Lys Lys Ser Thr Ser Val Asn Val Phe Met Leu Asn Leu 70 75 80

Ala Ile Ser Asp Leu Leu Phe Ile Ser Thr Leu Pro Phe Arg Ala Asp 85 90 95

Tyr Tyr Leu Arg Gly Ser Asn Trp Ile Phe Gly Asp Leu Ala Cys Arg
100 105 110

Tile Met Ser Tyr Ser Leu Tyr Val Asn Met Tyr Ser Ser Ile Tyr Phe

Theu Thr Val Leu Ser Val Val Arg Phe Leu Ala Met Val His Pro Phe 130 140

Arg Leu Leu His Val Thr Ser Ile Arg Ser Ala Trp Ile Leu Cys Gly 145 150 155 160

Ile Ile Trp Ile Leu Ile Met Ala Ser Ser Ile Met Leu Leu Asp Ser 165 170 175

Gly Ser Glu Gln Asn Gly Ser Val Thr Ser Cys Leu Glu Leu Asn Leu 180 185 190

Tyr Lys Ile Ala Lys Leu Gln Thr Met Asn Tyr Ile Ala Leu Val Val 195 200 205

Gly Cys Leu Leu Pro Phe Phe Thr Leu Ser Ile Cys Tyr Leu Leu Ile 210 215 220 Ile Arg Val Leu Leu Lys Val Glu Val Pro Glu Ser Gly Leu Arg Val 230

Ser His Arg Lys Ala Leu Thr Thr Ile Ile Ile Thr Leu Ile Ile Phe 250

Phe Leu Cys Phe Leu Pro Tyr His Thr Leu Arg Thr Val His Leu Thr

Thr Trp Lys Val Gly Leu Cys Lys Asp Arg Leu His Lys Ala Leu Val 275 280

Ile Thr Leu Ala Leu Ala Ala Ala Asn Ala Cys Phe Asn Pro Leu Leu 290 295

🏥 Tyr Tyr Phe Ala Gly Glu Asn Phe Lys Asp Arg Leu Lys Ser Ala Leu 305 1,54

Arg Lys Gly His Pro Gln Lys Ala Lys Thr Lys Cys Val Phe Pro Val 330 325

Ser Val Trp Leu Arg Lys Glu Thr Arg Val 340 123

हुँ स्व है। इस स्व

| 210 > 31 | 2211 > 25 | 2212 > PRT | <213 > Homo sapiens

<400> 31

Phe Phe Pro Ile Val Tyr Leu Ile Ile Phe Phe Trp Gly Val Leu Gly 10

Asn Gly Leu Ser Ile Tyr Val Phe Leu 20

<210> 32 <211> 25 <212> PRT

<213> Homo sapiens

<400> 32

Val Phe Met Leu Asn Leu Ala Ile Ser Asp Leu Leu Phe Ile Ser Thr

Leu Pro Phe Arg Ala Asp Tyr Tyr Leu

```
<210> 33
 <211> 22
 <212> PRT
 <213> Homo sapiens
 <400> 33
 Val Asn Met Tyr Ser Ser Ile Tyr Phe Leu Thr Val Leu Ser Val Val
 Arg Phe Leu Ala Met Val
            20
 <210> 34
 <211> 20
 <212> PRT
 <213> Homo sapiens
400> 34
Ala Trp Ile Leu Cys Gly Ile Ile Trp Ile Leu Ile Met Ala Ser Ser
ļas b
Ille Met Leu Leu
210> 35
<sup>#</sup><211> 28
212> PRT
₹213> Homo sapiens
400> 35
 The Ala Lys Leu Gln Thr Met Asn Tyr Ile Ala Leu Val Val Gly Cys 1 10 15
 Leu Leu Pro Phe Phe Thr Leu Ser Ile Cys Tyr Leu
 <210> 36
 <211> 22
 <212> PRT
 <213> Homo sapiens
 <400> 36
 Ala Leu Thr Thr Ile Ile Ile Thr Leu Ile Ile Phe Phe Leu Cys Phe
 Leu Pro Tyr His Thr Leu
            20
 <210> 37
 <211> 23
 <212> PRT
 <213> Homo sapiens
```

```
<400> 37
 Ala Leu Val Ile Thr Leu Ala Leu Ala Ala Ala Asn Ala Cys Phe Asn
 Pro Leu Leu Tyr Tyr Phe Ala
               20
 <210> 38
 <211> 13
<212> PRT
<213> Homo sapiens
 <400> 38
 Leu Leu His Val Thr Ser Ile Arg Ser Ala Trp Ile Leu
                   5
210> 39
2211> 13
2212> PRT
2213> Homo sapiens
N400> 39
71
ser Gly Leu Arg Val Ser His Arg Lys Ala Leu Thr Thr
                   5
ğızı,
[u≠ 210> 40
211> 13
2212> PRT
2213> Homo sapiens
₹400> 40
 Phe Leu Pro Tyr His Thr Leu Arg Thr Val His Leu Thr
                   5
 <210> 41
 <211> 13
<212> PRT
 <213> Homo sapiens
 <400> 41
 Thr Val His Leu Thr Thr Trp Lys Val Gly Leu Cys Lys
                   5
 <210> 42
 <211> 14
 <212> PRT
 <213> Homo sapiens
 <400> 42
```

Ser Glu Met Glu Pro Asn Gly Thr Phe Ser Asn Asn Asn Ser

```
1
                                  10
 <210> 43
 <211>
       14
 <212>
       PRT
 <213> Homo sapiens
 <400> 43
Gly Thr Phe Ser Asn Asn Asn Ser Arg Asn Cys Thr Ile Glu
 <210> 44
      14
 <211>
 <212> PRT
 <213> Homo sapiens
 <400> 44
Asn Asn Asn Ser Arg Asn Cys Thr Ile Glu Asn Phe Lys Arg
ųĮ)
₹210> 45
..≰211>
       14
|<212>
       PRT
15213> Homo sapiens
400> 45
Ser Gly Ser Glu Gln Asn Gly Ser Val Thr Ser Cys Leu Glu
                                    10
ļank
☼210> 46
211>
       38
<212> DNA
 <213> Homo sapiens
 <400> 46
 gcagcagcgg ccgcgaattt ttcccaattg tatatctg
                                                                       38
 <210> 47
 <211>
      37
 <212>
       DNA
 <213> Homo sapiens
 <400> 47
                                                                       37
 gcagcagtcg acttatactc ttgtttcctt tctcaac
 <210>
       48
 <211>
       38
       DNA
 <212>
       Homo sapiens
 <213>
 <400> 48
gcagcagegg cegcatggaa ccaaatggca cetteage
                                                                       38
```

```
<210> 49
       36
<211>
<212> DNA
<213> Homo sapiens
<400> 49
gcagcagtcg accccagcaa agtaatagag cagagg
                                                                           36
<210> 50
<211>
       38
<212> DNA
<213> Homo sapiens
<400> 50
gcagcagcgg ccgcgaattt ttcccaattg tatatctg
                                                                           38
۱.
<u>~</u>210>
       51
V-1211>
V-1212>
V-1213>
       37
       DNA
       Homo sapiens
400> 51
geagcagtcg actactcttg tttcctttct caaccac
                                                                           37
≰210>
       52
<u></u>211>
       39
<212><213>
       DNA
      Homo sapiens
₹400> 52
gcagcagcgg ccgcatggag agaaaattta tgtccttgc
                                                                           39
<210> 53
<211>
       36
<212>
       DNA
<213> Homo sapiens
<400> 53
gcagcagtcg accccagcaa agtaatagag cagagg
                                                                          36
<210>
       54
<211>
       1026
<212> DNA
<213> Homo sapiens
<220>
<221> CDS
<222> (1)..(1023)
<400> 54
```

											atg Met					48
		_				_			_		att Ile	_			_	96
_	_					_		_			ttt Phe				_	144
_				-				_		_	cag Gln 60			_	_	192
					-		_			_	gcc Ala			_		240
leu Leu																288
ger	aat Asn	tgg Trp	ata Ile 100	ttt Phe	gga Gly	gac Asp	ctg Leu	gcc Ala 105	tgc Cys	agg Arg	att Ile	atg Met	tct Ser 110	tat Tyr	tcc Ser	336
ttg Leu																384
											cgg Arg 140					432
	_			_	_				_		atc Ile					480
											ggc Gly					528
											tat Tyr					576
											ggc Gly					624
											att Ile 220					672
aaa	gtg	gag	gtc	cca	gaa	tcg	999	ctg	cgg	gtt	tct	cac	agg	aag	gca	720

Lys 225	Val	Glu	Val	Pro	Glu 230	Ser	Gly	Leu	Arg	Val 235	Ser	His	Arg	Lys	Ala 240	
												ttg Leu				768
					-		-		_	_		tgg Trp				816
	_		_	_	_			_	_	_		aca Thr 285	_	-	_	864
-	_	_		_	_				_			tac Tyr		_		912
305												aaa Lys				960
	_	_	_		-	-	_			•	_	gtg Val		_	_	1008
3	Glu	aca Thr	_	_	taa											1026
<211 <212 <213		341 PRT														
	3 > I	Omo	sapi	ens												
<400		Homo 55	sapi	lens												
<400)> !	55	_		Ser	Ile	Ser	Val	Ser 10	Glu	Met	Glu	Pro	Asn 15	Gly	
<400 Met 1)> ! Ser	55 Leu	Gln	Pro 5					10			Glu Glu		15		
<400 Met 1 Thr)> ! Ser Phe	Leu Ser	Gln Asn 20	Pro 5 Asn	Asn	Ser	Arg	Asn 25	10 Cys	Thr	Ile		Asn 30	15 Phe	Lys	
<400 Met 1 Thr	Ser Phe Glu	Ser Phe	Gln Asn 20	Pro 5 Asn Pro	Asn Ile	Ser Val	Arg Tyr 40	Asn 25 Leu	10 Cys Ile	Thr Ile	Ile Phe	Glu Phe	Asn 30	15 Phe Gly	Lys Val	

Leu Phe Ile Ser Thr Leu Pro Phe Arg Ala Asp Tyr Tyr Leu Arg Gly 85 90 95

Ser Asn Trp Ile Phe Gly Asp Leu Ala Cys Arg Ile Met Ser Tyr Ser 100 105 110

Leu Tyr Val Asn Met Tyr Ser Ser Ile Tyr Phe Leu Thr Val Leu Ser 115 120 125

Val Val Arg Phe Leu Ala Met Val His Pro Phe Arg Leu Leu His Val 130 135 140

Thr Ser Ile Arg Ser Ala Trp Ile Leu Cys Gly Ile Ile Trp Ile Leu 150 155 160

The Met Ala Ser Ser Ile Met Leu Leu Asp Ser Gly Ser Glu Gln Asn 165 170 175

Gly Ser Val Thr Ser Cys Leu Glu Leu Asn Leu Tyr Lys Ile Ala Lys 180 185 190

Heu Gln Thr Met Asn Tyr Ile Ala Leu Val Val Gly Cys Leu Leu Pro
195 200 205

Phe Phe Thr Leu Ser Ile Cys Tyr Leu Leu Ile Ile Arg Val Leu Leu

210 215 220

Lys Val Glu Val Pro Glu Ser Gly Leu Arg Val Ser His Arg Lys Ala 225 230 235 240

Leu Thr Thr Ile Ile Ile Thr Leu Ile Ile Phe Phe Leu Cys Phe Leu 245 250 255

Pro Tyr His Thr Leu Arg Thr Val His Leu Thr Thr Trp Lys Val Gly 260 265 270

Leu Cys Lys Asp Arg Leu His Lys Ala Leu Val Ile Thr Leu Ala Leu 275 280 285

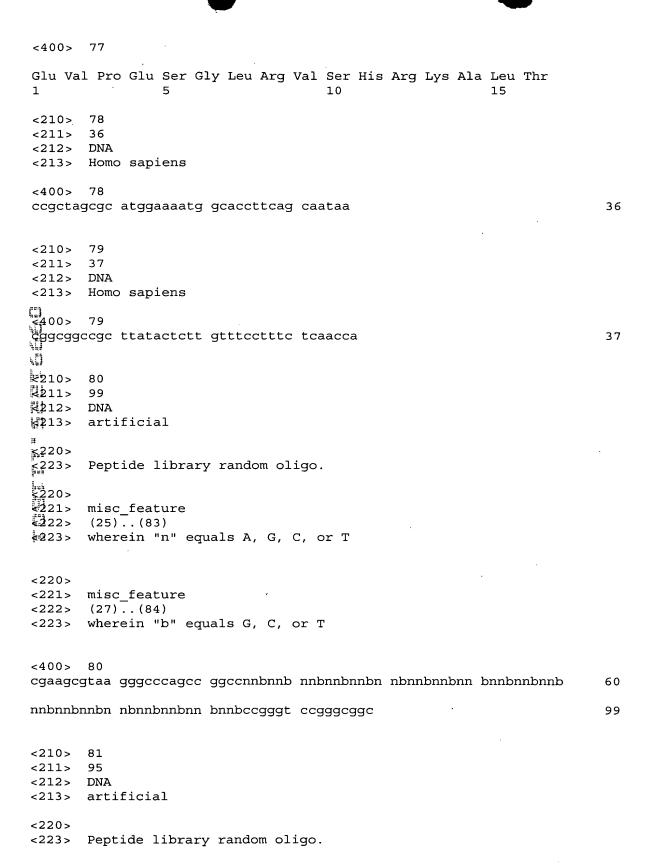
Ala Ala Asn Ala Cys Phe Asn Pro Leu Leu Tyr Tyr Phe Ala Gly 290 295 300

Glu Asn Phe Lys Asp Arg Leu Lys Ser Ala Leu Arg Lys Gly His Pro 310 315 305 Gln Lys Ala Lys Thr Lys Cys Val Phe Pro Val Ser Val Trp Leu Arg 330 325 Lys Glu Thr Arg Val 340 <210> 56 <211> 14 <212> PRT <213> Homo sapiens **400> 56** The Leu Gln Pro Tyr Lys Lys Ser Thr Ser Val Asn Val Phe 5 10 ₹210> 57 211> 11 <212> PRT ₹213> Homo sapiens <u>4</u>00> 57 val Ser Val Trp Leu Arg Lys Glu Thr Arg Val h. M 5 **₹2**10> 58 <211> 14 <212> PRT <213> Homo sapiens <400> 58 Ile Met Leu Leu Asp Ser Gly Ser Glu Gln Asn Gly Ser Val 5 <210> 59 <211> 14 <212> PRT <213> Homo sapiens <400> 59 Asn Gly Ser Val Thr Ser Cys Leu Glu Leu Asn Leu Tyr Lys 5 <210> 60 <211> 15 <212> PRT <213> Homo sapiens

```
<400> 60
 Met Glu Pro Asn Gly Thr Phe Ser Asn Asn Asn Ser Arg Asn Cys
 <210> 61
 <211> 16
 <212> PRT
 <213> Homo sapiens
 <400> '61
 Ile Ile Phe Phe Trp Gly Val Leu Gly Asn Gly Leu Ser Ile Tyr Val
 <210> 62
 <211> 16
212> PRT
٠.
₹400> 62
Phe Trp Gly Val Leu Gly Asn Gly Leu Ser Ile Tyr Val Phe Leu Gln
1
210> 63
<sup>#</sup> <211> 16
212> PRT
№ 213> Homo sapiens
#k400> 63
Met Leu Leu Asp Ser Gly Ser Glu Gln Asn Gly Ser Val Thr Ser Cys
 <210> 64
 <211> 16
 <212> PRT
 <213> Homo sapiens
 <400> 64
 Gly Ser Glu Gln Asn Gly Ser Val Thr Ser Cys Leu Glu Leu Asn Leu
 <210> 65
 <211> 16
<212> PRT
 <213> Homo sapiens
 <400> 65
 Glu Val Pro Glu Ser Gly Leu Arg Val Ser His Arg Lys Ala Leu Thr
 <210> 66
```

```
<211> 14
 <212> PRT
 <213> Homo sapiens
 <400> 66
 Phe Leu Gln Pro Tyr Lys Lys Ser Thr Ser Val Asn Val Phe
                5
 <210> 67
 <211> 11
 <212> PRT
 <213> Homo sapiens
 <400> 67
 Val Ser Val Trp Leu Arg Lys Glu Thr Arg Val
                5
<210> 68
211> 14
₩ 212> PRT
213> Homo sapiens
<400> 68
17
^{**} Leu Gln Pro Ser Ile Ser Val Ser Glu Met Glu Pro Asn Gly
1
     5
<210> 69
<211> 14
(1<212> PRT
[]<213> Homo sapiens
 <400> 69
 Pro Ser Ile Ser Val Ser Glu Met Glu Pro Asn Gly Thr Phe
                5
 <210> 70
 <211> 14
 <212> PRT
 <213> Homo sapiens
 <400> 70
 Ile Met Leu Leu Asp Ser Gly Ser Glu Gln Asn Gly Ser Val
                5
 <210> 71
 <211> 14
 <212> PRT
 <213> Homo sapiens
 <400> 71
 Asn Gly Ser Val Thr Ser Cys Leu Glu Leu Asn Leu Tyr Lys
```

```
1
                                                  5
                                                                                                              10
  <210> 72
  <211> 15
   <212> PRT
   <213> Homo sapiens
  <400> 72
  Met Glu Pro Asn Gly Thr Phe Ser Asn Asn Ser Arg Asn Cys
  <210> 73
  <211> 16
  <212> PRT
  <213> Homo sapiens
<400> 73
the Ile Phe Phe Trp Gly Val Leu Gly Asn Gly Leu Ser Ile Tyr Val
                                                                                                             10
10
≠210>
                    74
                       16
211>
|212>
                     PRT
[1213>
                    Homo sapiens
#<400> 74
Phe Trp Gly Val Leu Gly Asn Gly Leu Ser Ile Tyr Val Phe Leu Gln
(i)
210> 75 210 210 210 210 210 210 210 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 310 
£211> 16
  <212> PRT
  <213> Homo sapiens
  <400> 75
  Met Leu Leu Asp Ser Gly Ser Glu Gln Asn Gly Ser Val Thr Ser Cys
                                                                                                              10
  <210>
                       76
  <211>
                       16
  <212> PRT
  <213> Homo sapiens
  <400> 76
  Gly Ser Glu Gln Asn Gly Ser Val Thr Ser Cys Leu Glu Leu Asn Leu
                                                                                                              10
  <210> 77
   <211>
                       16
  <212> PRT
  <213> Homo sapiens
```



<222>	misc_feature (22)(80) wherein "n" equals A, G, C, or T	
<222>	misc_feature (21)(78) wherein "n" equals C, A, or G.	
<400> aaaagga	81 aaaa aagcggccgc vnnvnnvnnv nnvnnvnnvn nvnnvnnvnn vnnvnn	60
nnvnnvi	nnvn nvnnvnnvnn geegeeegga eeegg	95

and permanent some former permanent in the second of the s